GOVERNMENT OF INDIA
RAILWAYS
LOK SABHA

UNSTARRED QUESTION NO:1615
ANSWERED ON:27.07.2016
Funds for R&D Units
Chinnaraj Shri Gopalakrishnan

Will the Minister of RAILWAYS be pleased to state:

(a) the aims and objectives for setting up of Research and Development (R&D) units under the Railways in the country;

(b) the total number of R&D units presently functioning in the country, region wise and the works done by R&D units during the last three years; and

(c) the total budget allocated for R&D units in the Railways during the above period?

Answer

MINISTER OF STATE IN THE MINISTRY OF RAILWAYS
(SHRI RAJEN GOHAIN)

(a) to (c): A Statement is laid on the Table of the House.

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STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (c) OF UNSTARRED QUESTION NO. 1615 BY DR. C. GOPALAKRISHNAN TO BE ANSWERED IN LOK SABHA ON 27.07.2016 REGARDING R&D UNITS

(a) & (b): Research, Designs and Standards Organization (RDSO), situated at Lucknow, is the sole Research and Development (R&D) organisation of Indian Railways and functions as the technical advisor to Railway Board and Zonal Railways. The aims and objectives assigned to RDSO include the following:
â€¢ Development of new and improved designs of systems and equipments
â€¢ Development, adoption and absorption of new technology for use on Indian Railways
â€¢ Development of overall system standards
â€¢ Development of specifications for equipment, components & materials
â€¢ Testing and Recommending authority for Statutory clearances (including Metro system)
â€¢ Assistance in technical investigations
â€¢ Quality Assurance of delegated items
Some of the important work done by RDSO, during the past three years, are listed below:
? Advance Warning System (Radio Based) to pre-warn road user about approaching trains at unmanned level crossing gate
? Crashworthy design of coach
? Fog PASS (Pilot Assistance System for Safety) with enhanced features
? Development of indigenous Advanced Auxiliary Warning System (AAWS)
? Development of satellite based accident site communication system
? Development of double decker coach design
? High capacity milk tank van
? Upgradation of existing wagons to 25t
? Development of energy efficient HOG (Head on Generation) train power system for Indian Railways in electric locos
? Development of WDG5 locomotive for increasing throughput
? Development of 9000 HHP locomotive for DFCCIL Western Corridor
? Development of Crew Voice and Video Recording System(CVVRS)
? Operation of Gatimaan Express
? Design & development of new wagon for salt loading
? Design & development of auto car wagon
? Development of world-class Interiors in ICF type coaches

? Differently-abled passenger coaches
? Broadband internet on running trains through two-way satellite communication
? Development of Integrated passenger information system (PIS) for mainline and EMU coaches
? Environment friendly coach toilet discharge system
â€¦3/-

? Introduction of biodiesel over IR
? Introduction of natural gas operated trains over IR

(c): The total budget allocated to RDSO is as under:

(in Crores)
Financial year Budget allotment (Revenue & Capital)

2014-15 216.11
2015-16 241.19
2016-17 313.10

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